



# THE HANFORD SITE

## 2021 Groundwater Update

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## Use of Operational Experience

- Operating experience is highly valued and the capacity to learn from experience is well developed
- The organization regularly examines and learns from operating experiences, both internal and in related industries

**Objective of the briefing:** Hanford groundwater highlights for 2021

**What is being briefed:**

- Treatment accomplishments
- Decision documents approved

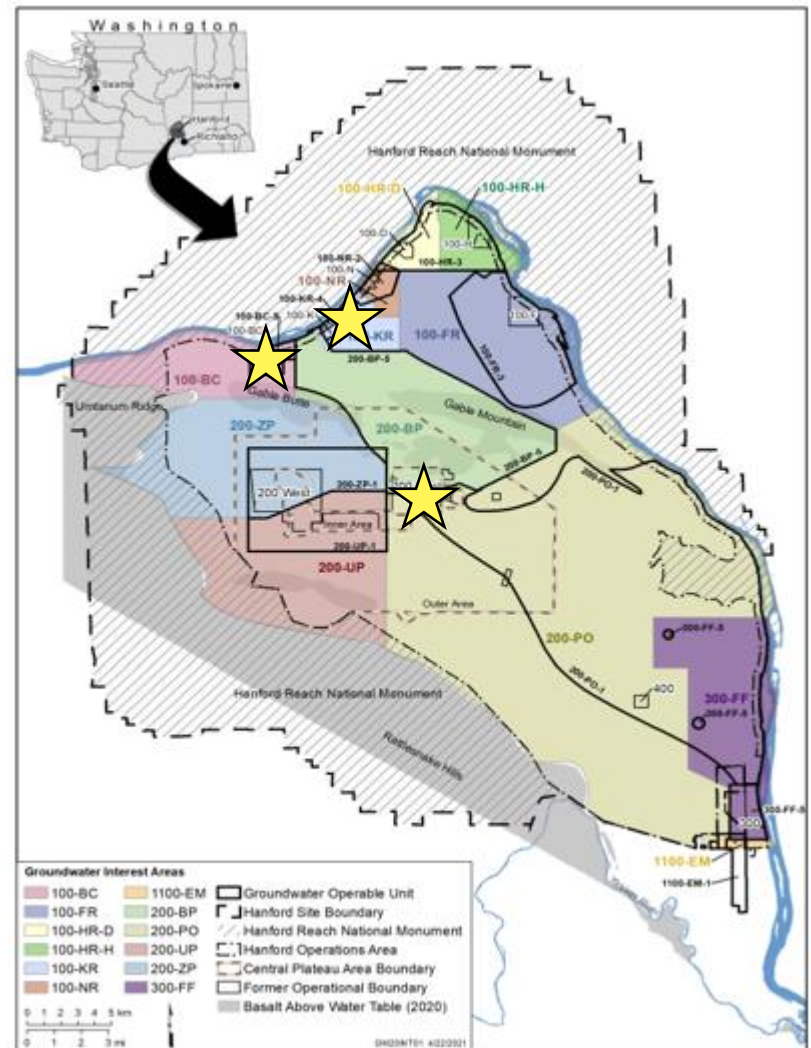
**What do we want the Hanford Advisory Board (HAB) to do with this information:** The information is relevant to the decisions that will be implemented in the near term

- Removed 2.2 tons of contaminants, treated more than 2.4 billion gallons of groundwater
- We have treated 2.2 billion gallons (or more) of groundwater for the last 7 years in a row



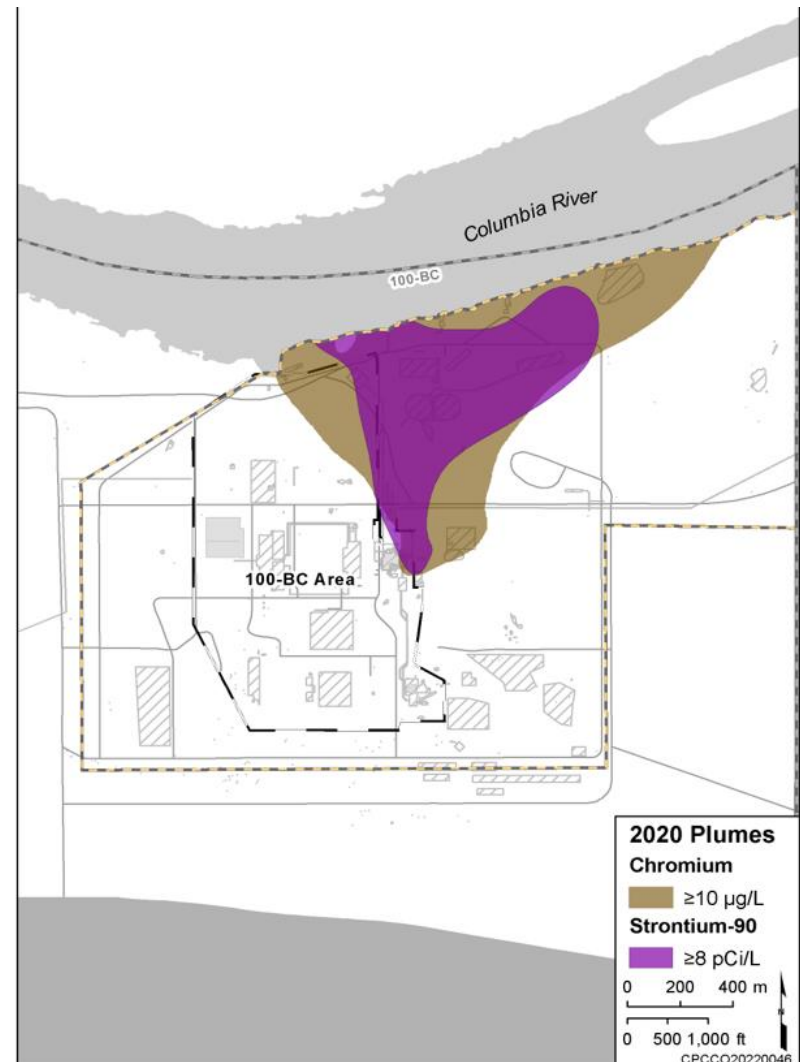
The 200 West Pump and Treat Facility Has Been Operational Since 2012

Decision documents signed for 100-BC, 100-K, and 200-BP-5/200-PO-1



Hanford Site Groundwater Areas

- Fourth of six planned final records of decision for the Columbia River corridor
- Addresses all three 100-BC operable units
  - 100-BC-1 and 100-BC-2 waste sites
  - 100-BC-5 groundwater
- Selected remedy is consistent with existing decisions and activities for the 100-BC



Hanford Site 2020 Plumes





100-BC After Completion of Interim-Action Remediation (2015)

# 100-K Explanation of Significant Difference

This Explanation of Significant Difference addressed two significant changes from the 1996 interim record of decision:

- Added soil flushing at the 183.1-K East Headhouse area as an enhancement to groundwater pump-and-treat remedy
- Updated overall costs for the approved remedy

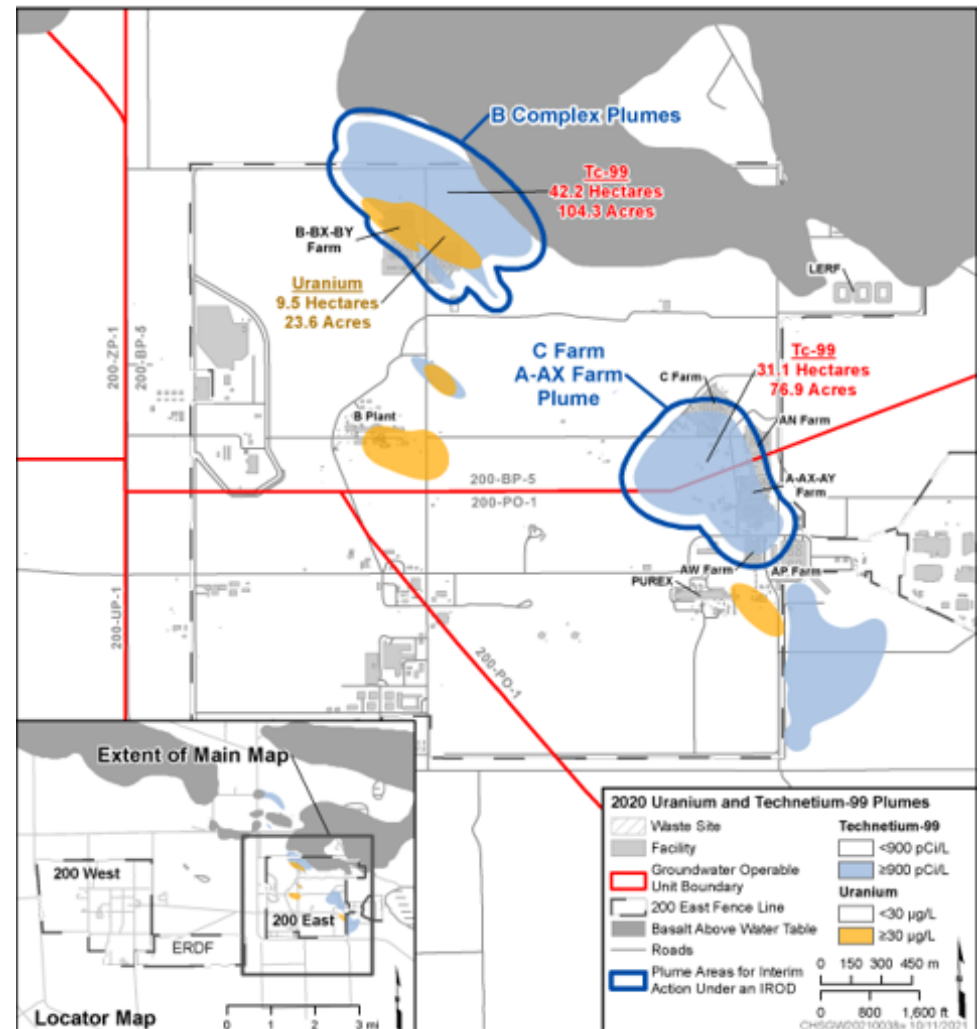


Piping Supports Previous Soil Flushing at 100-K West



# 200-BP-5 and 200-PO-1 Interim Record of Decision

- Interim record of decision signed September 2021
  - Pump and treat
  - Technetium-99 and uranium and plumes at B Complex
  - Technetium-99 plume at C Tank Farm and A/AX Tank Farm
- Final decisions not expected until overlying source areas are further characterized



2020 Uranium and Technetium-99 Plumes

- Great strides are being taken to develop and implement remedy decisions across the Hanford Site
- Process improvements increase progress in removal of groundwater contaminants, shortening the period required to meet cleanup goals
- Soil flushing has proven to be very successful at the 100-K Area
- Goal: protection of the Columbia River

# Questions?



The Hanford Reach  
White Bluffs Overlooking the Columbia River